

WHAT IS CLAIMED IS:

1. An image processing apparatus comprising:

an image processing section which performs system initialization processing for image processing when a power source is turned on or at a starting, and performs image processing in accordance with an instruction for execution of image processing;

an abnormal state detecting section for detecting generation of an abnormal state of the image processing section; and

a trial section which, when the abnormal state of the image processing section is detected by the abnormal state detecting section, makes a trial of eliminating the abnormal state by controlling so that at least the image processing section transits to an initial state without performing the system initialization processing.

2. An image processing apparatus according to claim 1, wherein the system initialization processing by the image processing section includes at least one of an operation of turning on again a power source of the image processing section, and an operation of down loading a parameter or a program to an image processing substrate, which is mounted in the image processing apparatus and is a part of the image processing section.

3. An image processing apparatus according to claim 1, further comprising an equipment related to the image processing,

wherein the system initialization processing performed by the image processing section includes at least one of an operation of turning on again a power source of the equipment related to the image processing and initializing the equipment related to the image processing, and an operation of downloading a parameter or a program to the equipment related to the image processing.

4. An image processing apparatus according to claim 1, wherein the abnormal state detecting section is provided so as to detect the abnormal state of the image processing section based on a determination as to whether a restart button for indicating restart of the image processing section is turned on.

5. An image processing apparatus according to claim 1, wherein the image processing section comprises a single main process and plural sub-processes, and

the trial section allows transition of the image processing section to an initial state by giving, to the plural subprocesses of the image processing section, an instruction for transition to an initial state.

6. An image processing apparatus according to claim 1, further comprising an equipment related to the image processing,

wherein the trial section allows transition of the equipment related to the image processing, to an initial state by giving, to the equipment related to the image processing, an instruction for transition to an initial state.

7. An image processing apparatus according to claim 5, wherein the trial section makes a determination that, based on a determination as to whether a normal response with respect to the instruction for transition to an initial state is received from the sub processes within a predetermined time, transition to an initial state succeeds or fails.

8. An image processing apparatus according to claim 6, wherein the trial section makes a determination that, based on a determination as to whether a normal response with respect to the instruction for transition to an initial state is received from the equipment related to the image processing within a predetermined time, transition to an initial state succeeds or fails.

9. An image processing apparatus according to claim 1,

further comprising a notification section for giving a notice that the transition to an initial state by the trial section succeeds or fails.

10. An image processing apparatus according to claim 1, further comprising a start control section which, when the transition to an initial state by the trial section fails, controls the image processing section so that the image processing section is restarted and performs the system initialization processing.

11. A method for controlling an image processing apparatus including an image processing section which performs system initialization processing for image processing when a power source is turned on or at a starting, and performs image processing in accordance with an instruction for execution of image processing, said method comprising the steps of:

when an abnormal state of the image processing section is detected, making a trial of eliminating the abnormal state by controlling so that at least the image processing section transits to an initial state without performing the system initialization processing; and

controlling the image processing section so that, when the transition to an initial state fails, the image processing section is restarted and performs the system initialization

processing.